MARPROZEP
INDUSTRIAL MAINTANCE CHEMICALS

MATERIAL SAFETY DATA SHEET

BOWLMATE

TOILET BOWL CLEANER

1. Product Identification:

Trade Name	**BOWL MATE**
Chemical Family	Acids, surfactants, mineral oils.
Chemical Name	Formulated product.
Product use	Urinal/toilet bowl cleaner.
UN Number	1789

2. Composition/ Information of Ingredients:

CAS No.	**Hazardous Components**	**Approximate %**	**Limit WEL (8hr)**
7647-01-0	Hydrochloric acid	50-100	5ppm ceiling
EEC classification	Corrosive, (C).		
R Phrases	R34/37		

3. Hazards Identification:

Main hazard	Corrosive, (C).
Fire	Non-flammable.
Inhalation	Irritation, burns and pulmonary edema.
Skin contact	Irritation and chemical burns.
Eye Contact	Irritation, eye damage, and blindness.
Ingestion	Burning, abdominal pain, vomiting.

4. First Aid Measures:

Inhalation	Remove patient to fresh air. Get medical attention.
Skin contact	Flush skin with copious quantities of water and soap for at least 15 minutes.
Eye contact	Irrigate eyes with water while holding eyelids apart. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention.

5. Fire Fighting Measures:

Extinguishing media	Product non-flammable. Use media appropriate for surrounding fire.
Special hazards	Reacts with most metals to produce flammable hydrogen gas.
Protective clothing	Self-contained breathing apparatus (SCBA) should be worn.

6. Accidental Release Measures:

Personal precautions	Wear appropriate protective clothing. Avoid contact with skin and eyes.
Environmental precautions	Do not flush with water nor dispose into sewers, storm water or drains.

Small spills	Dilute with water and mop up.
Large spills	Absorb with dry earth, sand or other non-combustible material. Place in waste disposal container.

7. Handling & Storage:

Handling	Use with adequate ventilation and protective clothing.
Storage	Store in a cool, dry, well ventilated area.

8. Exposure Controls/ Personal Protection:

Work in a well ventilated area.
Wear protective clothing to prevent skin exposure.
Wear appropriate safety goggles, where splashing is likely to occur.
Make eye bath and emergency shower available.

9. Physical and Chemical Properties:

Appearance	Clear reddish liquid.
pH (concentrate)	<1.0
Density	1.100-1.140
Viscosity	Not determined.
Solubility (water)	Soluble.

10. Stability and Reactivity:

Stability	Stable under normal conditions.
Incompatible materials	Reacts violently with alkalis and metals.
Hazardous decomposition	Hydrogen chloride, chlorine, CO, CO_2, hydrogen gas.

11. Toxicological Information:

Toxicity - Acute oral	LD_{50} (Rabbit): 900mg/kg
Acute inhalation	LD_{50} (Rat): 3124ppm
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive hazards	Not expected to impair fertility.

12. Ecological Information:

Aquatic toxicity - rainbow	Toxic at high concentrations.
Aquatic toxicity - daphnia	Toxic at high concentrations.
Aquatic toxicity - algae	Toxic at high concentrations.
Biodegradability	Not expected to Biodegrade.
Bioaccumulation	Not expected to bioaccumulate.

13. Disposal Considerations:

Disposal methods	Neutralise with bicarbonate of soda and dispose of as per local government regulations.
Disposal of packaging	Do not re-use discarded containers/ packaging. Dispose of as per local government regulations.

14. Transport Information:

UN Number	1789
Substance identity no	**M-3E**
ADR/RID class	Class 8: Corrosive liquid.
IMDG – packaging group	II
Marine Pollutant	No
IMO/IMDG Classification	Class 8: Corrosive liquid.
IATA Classification	Class 8: Corrosive liquid.

15. Regularity Information:

EEC-hazard classification	Corrosive, (C).
Risk phases	R34/37
Safety phases	S1/2,S26,S45

16. Other Information:

All information is given in good faith without guarantee in respect of accuracy and no responsibility shall be accepted for errors or omissions or the consequences thereof. Persons handling or affiliated with the material is urged to scrutinize this MSDS carefully to become aware and accustomed to the hazards associated with the product. Users are recommended to consult reference works or experts in the handling of any chemical substance to ensure and promote safety and environmental considerations in their field of business practice.